

Curriculum Vitae

MEHDI TAJVIDI, PHD

Associate Professor of Renewable Nanomaterials

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PROFESSIONAL EXPERIENCE:

- September 2019-present: **Associate Professor of Renewable Nanomaterials**, School of Forest Resources, University of Maine, Orono, ME, USA
- September 2013-August 2019: **Assistant Professor of Renewable Nanomaterials**, School of Forest Resources, University of Maine, Orono, ME, USA
- August 2012-July 2013: **Research Associate**, Department of Chemical Engineering, Faculty of Engineering, University of Waterloo, Waterloo, ON, Canada.
- August 2011-July 2012: **Visiting Professor**, Department of Chemical Engineering, Faculty of Engineering, University of Waterloo, Waterloo, ON, Canada.
- November 2010-September 2011: **Associate Professor**, Department of Wood and Paper Science and Technology, Faculty of Natural Resources, University of Tehran, Karaj, Iran.
- September 2008-November 2010: **Assistant Professor**, Department of Wood and Paper Science and Technology, Faculty of Natural Resources, University of Tehran, Karaj, Iran.
- September 2007-September 2009: **Visiting Assistant Professor**, Laboratory of Polymeric Materials, Department of Biomaterials Science, Graduate School of Agricultural and Life Sciences, the University of Tokyo, Tokyo, Japan.
- September 2003-September 2007: **Assistant Professor**, Department of Wood and Paper Science and Technology, Faculty of Natural Resources, University of Tehran, Karaj, Iran.
- October 2001-July 2002: **Visiting Scientist**, Forest Products Laboratory, Madison, Wisconsin, USA.

EDUCATIONAL BACKGROUND:

- **Ph.D. in Natural Resources Engineering: Wood and Paper Science and Technology**, Faculty of Natural Resources, University of Tehran, Iran, July 2003.
- **M.Sc. in Natural Resources Engineering: Wood and Paper Science and Technology**, Faculty of Natural Resources, University of Tehran, Iran, May 1998.
- **B.Sc. in Natural Resources Engineering: Wood and Paper Science and Technology**, Faculty of Natural Resources, University of Tehran, Iran, July 1996.

OTHER PROFESSIONAL EXPERIENCE:

- Graduate Program Coordinator, School of Forest Resources, University of Maine, Orono, September 2017-August 2020.

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- Cooperating Associate Professor, Advanced Structures and Composites Center, University of Maine, September 2013-present.
- Cooperating Associate Professor, Forest Bioproducts Research Institute (FBRI), University of Maine, September 2013-present.
- Editorial Assessor, Journal of Green Materials, September 2018-present.
- Editorial Board Member: Composites Part B: Engineering, February 2021-present.
- Executive Director, Iranian Journal of Wood and Paper Industries, 2010-2013.
- Library Manager, Faculty of Natural Resources, University of Tehran, Karaj, Iran, 2004-2007 and March 2011-September 2011.
- ESL (English as a Second Language) Teacher, 1998-2011, various language institutes, Iran.
- Language Editor, Journal of Agricultural Science and Technology (JAST), 2010-2012.
- Editorial Assistant, Iranian Journal of Natural Resources, 1999-2001.

RESEARCH INTERESTS:

- Cellulose nanocrystals (CNC), cellulose nanofibrils (CNF) and their composites
- Specialty bio-based nano-composites, nonwovens, laminates
- Fiber spinning, extrusion, polymer processing
- Fiber orientation quantification and mapping
- Sustainable packaging materials, barrier properties
- Nano-mechanics
- Natural fiber-thermoplastic/ thermosetting composites
- Mechanical characterization of polymers and composites
- Viscoelastic properties, creep, stress relaxation, fatigue and dynamic mechanical properties
- Biomass utilization and conversion, forest residue utilization
- Bio-composites processing and formulation
- Recycling and recyclability assessment
- Image analysis in material science and engineering applications

ACHIEVEMENTS AND AWARDS:

- First Runner-Up to the 2019 TAPPI Journal Best Research Paper for “Cracking at the fold in double layer coated paper: the influence of latex and starch composition,” March 2020.
- G. Pierce and Florence Pitts Webber Outstanding Forestry Teacher Award, April 2019, College of Natural Sciences, Forestry and Agriculture, University of Maine, Orono, ME, U.S.A.
- 2018 TAPPI Nanotechnology Division Mid-Career Award, June 2018.
- First place George Marra Award for Excellence in Writing, May 2017. Society of Wood Science and Technology (SWST).

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- G. Pierce and Florence Pitts Webber Outstanding Researcher in Forest Resources Award, April 2016, College of Natural Sciences, Forestry and Agriculture, University of Maine, Orono, ME, U.S.A.
- Outstanding Professor Award, 2011, Forests, Rangelands and Watershed Management Organization, Iran.
- Research Excellence Award, 2010, College of Agriculture and Natural Resources, University of Tehran, Iran.
- Teaching Excellence Award, academic year 2005-2006, College of Agriculture and Natural Resources, University of Tehran, Iran.
- Japan Society for the Promotion of Science (JSPS) Postdoctoral Fellowship Award, 2007-2009.
- Teaching Excellence Award, academic year 2006-2007, College of Agriculture and Natural Resources, University of Tehran, Iran.
- University of Tehran Ph.D. Fellowship, 1999-2002.
- First rank, University of Tehran Ph.D. Entrance Examination, 1998.
- First rank graduated Ph.D. student, University of Tehran, 2003.
- First rank graduated Master's student, University of Tehran, 1998.
- First rank, National Master's Entrance Examination, 1996.
- IELTS (Academic) English Test Score (Band score 8.5 out of 9), 2012.

LANGUAGES SPOKEN:

- English (near native)
- Farsi (mother tongue)
- Japanese (elementary)

PUBLICATIONS:

PEER REVIEWED PAPERS:

2021:

1. Taghiyari, H.R., **Tajvidi, M.**, Soltani, A., Esmailpour, A., Khodadoosti, G., Jafarzadeh, H., Militz, H. and Papadopoulos, A.N., 2021. Improving fire retardancy of unheated and heat-treated fir wood by nano-sepiolite. *European Journal of Wood and Wood Products*, pp.1-9.
2. Ghasemi, S., Amini, E. N., **Tajvidi, M.**, Kiziltas, A., Mielewski, D. F., & Gardner, D. J., 2020. Flexible polyurethane foams reinforced with organic and inorganic nanofillers. *Journal of Applied Polymer Science*, 138(10), 49983.
3. Li, K., Clarkson, C.M., Wang, L., Liu, Y., Lamm, M., Pang, Z., Zhou, Y., Qian, J., **Tajvidi, M.**, Gardner, D.J. and Tekinalp, H., 2021. Alignment of Cellulose Nanofibers: Harnessing Nanoscale Properties to Macroscale Benefits. *ACS Nano*.
4. Sun, W., **Tajvidi, M.**, Hunt, C. G., & Howell, C., 2020. All-Natural Smart Mycelium Surface with Tunable Wettability. *ACS Applied Bio Materials*.

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5. Sun, W., **Tajvidi, M.**, Howell, C., & Hunt, C. G., 2020. Functionality of Surface Mycelium Interfaces in Wood Bonding. *ACS Applied Materials & Interfaces*.

2020:

6. Tayeb A.H., **Tajvidi, M.**, & Bousfield, D. 2020. Enhancing the Oxygen Barrier Properties of Nanocellulose at High Humidity: Numerical and Experimental Assessment. *Sustainable Chemistry*, 1(3), 198-208.
7. González-Ugarte, A. S., Hafez, I., & **Tajvidi, M.**, 2020. Characterization and properties of hybrid foams from nanocellulose and kaolin-microfibrillated cellulose composite. *Scientific Reports*, 10(1), 1-12.
8. Alrubaie, M. A. A., Lopez-Anido, R. A., Gardner, D. J., **Tajvidi, M.**, & Han, Y. 2020. Experimental investigation of the hygrothermal creep strain of wood-plastic composite lumber made from thermally modified wood. *Journal of Thermoplastic Composite Materials*, 33(9), 1248-1268.
9. Amini, E., Hafez, I., **Tajvidi, M.**, & Bousfield, D. W., 2020. Cellulose and lignocellulose nanofibril suspensions and films: A comparison. *Carbohydrate Polymers*, 117011.
10. Wang, L., Gardner, D. J., Wang, J., Yang, Y., Tekinalp, H. L., **Tajvidi, M.**, ... & Ozcan, S., 2020. Towards the scale-up production of cellulose nanocomposites using melt processing: A critical review on structure-processing-property relationships. *Composites Part B: Engineering*, 108297.
11. Alrubaie, M. A. A., Lopez-Anido, R. A., Gardner, D. J., **Tajvidi, M.**, & Han, Y., 2020. Modeling the hygrothermal creep behavior of wood plastic composite (WPC) lumber made from thermally modified wood. *Journal of Thermoplastic Composite Materials*, 33 (8), 1109-1124.
12. Zhao, X., Li, K., Wang, Y., Tekinalp, H., Larsen, G., Rasmussen, D., Ginder, R., Wang, L., Gardner, D.J., **Tajvidi, M.** and Webb, E., 2020. High-strength polylactic acid (PLA) biocomposites reinforced by epoxy-modified pine fibers. *ACS Sustainable Chemistry & Engineering*.
13. Amini, E., & **Tajvidi, M.**, 2020. Mechanical and thermal behavior of cellulose nanocrystals-incorporated Acrodur® sustainable hybrid composites for automotive applications. *Journal of Composite Materials*, 0021998320912474.
14. Wang, L., Chen, C., Wang, J., Gardner, D. J., & **Tajvidi, M.**, 2020. Cellulose nanofibrils versus cellulose nanocrystals: Comparison of performance in flexible multilayer films for packaging applications. *Food Packaging and Shelf Life*, 23, 100464.
15. Hafez, I., Amini, E., & **Tajvidi, M.**, 2020. The synergy between cellulose nanofibrils and calcium carbonate in a hybrid composite system. *Cellulose*, 1-15.
16. Tayeb, A.H., **Tajvidi, M.**, & Bousfield, D., 2020. Paper Based Oil Barrier Packaging using Lignin-Containing Cellulose Nanofibrils. *Molecules*, 25(6), 1344.
17. Alikhani, N., Li, L., Wang, J., Dewar, D., & **Tajvidi, M.** 2020. Exploration of membrane-based dehumidification system to improve the energy efficiency of kiln drying processes: part I factors that affect moisture removal efficiency. *Wood and Fiber Science*, 52(3), 313-325.

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18. Hafez, I., & **Tajvidi, M.**, 2020. Laminated Wallboard Panels Made with Cellulose Nanofibrils as a Binder: Production and Properties. *Materials*, 13(6), 1303.
19. Ghasemi, S., Rahimzadeh-Bajgiran, P., **Tajvidi, M.**, & Shaler, S. M., 2020. Birefringence-based orientation mapping of cellulose nanofibrils in thin films. *Cellulose*, 27(2), 677-692.

2019:

20. Amini, E. N., **Tajvidi, M.**, Bousfield, D. W., Gardner, D. J., & Shaler, S. M., 2019. Dewatering Behavior of a Wood-Cellulose Nanofibril Particulate System. *Scientific Reports*, 9(1), 1-10.
21. Mosavi-Mirkolaei, S. T., Najafi, S. K., & **Tajvidi, M.**, 2019. Physical and Mechanical Properties of Wood-Plastic Composites Made with Microfibrillar Blends of LDPE, HDPE and PET. *Fibers and Polymers*, 20(10), 2156-2165.
22. Najafi, S. M. H., Bousfield, D. W., & **Tajvidi, M.**, 2019. Evaluation of the adhesion performance of latex-starch mixtures to calcium carbonate surfaces. *Nordic Pulp & Paper Research Journal*, 34(3), 318-325.
23. Zheng, M., **Tajvidi, M.**, Tayeb, A. H., & Stark, N. M., 2019. Effects of bentonite on physical, mechanical and barrier properties of cellulose nanofibril hybrid films for packaging applications. *Cellulose*, 26(9), 5363-5379.
24. Wang, L., Palmer, J., **Tajvidi, M.**, Gardner, D. J., & Han, Y., 2019. Thermal properties of spray-dried cellulose nanofibril-reinforced polypropylene composites from extrusion-based additive manufacturing. *Journal of Thermal Analysis and Calorimetry*, 136 (3), 1069-1077.
25. Sun, W., **Tajvidi, M.**, Hunt, C. G., McIntyre, G., & Gardner, D. J. 2019. Fully Bio-Based Hybrid Composites Made of Wood, Fungal Mycelium and Cellulose Nanofibrils. *Scientific Reports*, 9(1), 3766.
26. Najafi, S. M. H., Bousfield, D. W., & **Tajvidi, M.** 2019. Cracking at the fold in double layer coated paper: the influence of latex and starch composition. *Tappi Journal*, 18(2), 93-99.
27. Noonan, C., **Tajvidi, M.**, Tayeb, A. H., Shahinpoor, M., & Tabatabaie, S. E. 2019. Structure-Property Relationships in Hybrid Cellulose Nanofibrils/Nafion-Based Ionic Polymer-Metal Composites. *Materials*, 12(8), 1269.

2018:

28. Tayeb, A., Amini, E., Ghasemi, S., & **Tajvidi, M.**, 2018. Cellulose Nanomaterials—Binding Properties and Applications: A Review. *Molecules*, 23(10), 2684.
29. Tayeb, A. H. & **Tajvidi, M.**, 2018. Sustainable Barrier System via Self-assembly of Colloidal Montmorillonite and Crosslinking Resins on Nanocellulose Interfaces. *ACS Applied Materials & Interfaces*, 11 (1), 1604-1615.
30. Mashkour, M., Kimura, T., Mashkour, M., Kimura, F., & **Tajvidi, M.**, 2018. Printing Birefringent Figures by Surface Tension-Directed Self-Assembly of a Cellulose Nanocrystal/Polymer Ink Components. *ACS Applied Materials & Interfaces*, 11(1), 1538-1545.

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31. Ghasemi, S., **M. Tajvidi**, D. J., Gardner, D. W. Bousfield & S. M. Shaler. Effect of wettability and surface free energy of collection substrates on the structure and morphology of dry-spun cellulose nanofibril filaments. *Cellulose*, 25(11), 6305-6317.
32. Najafi, S. M. H., **Tajvidi, M.**, & Bousfield, D. W. 2018. Production and mechanical characterization of free-standing pigmented paper coating layers with latex and starch as binder. *Progress in Organic Coatings*, 123, 138-145.
33. Mousavi, S. M. M., Afra, E., **Tajvidi, M.**, Bousfield, D. W., & Dehghani-Firouzabadi, M., 2018. Application of cellulose nanofibril (CNF) as coating on paperboard at moderate solids content and high coating speed using blade coater. *Progress in Organic Coatings*, 122, 207-218
34. Ghasemi, S., **M. Tajvidi**, D.W. Bousfield and D. J. Gardner, 2018. Reinforcement of natural fiber yarns by cellulose nanomaterials: A multi-scale study. *Industrial Crops and Products*, 111, 471-481.
35. Wang, Lu, W.M. Gramlich, D.J. Gardner, Y. Han and **M. Tajvidi**, 2018. Spray-dried cellulose nanofibril-reinforced polypropylene composites for extrusion-based additive manufacturing: nonisothermal crystallization kinetics and thermal expansion. *Journal of Composites Science*, 2(1), 7.

2017:

36. Wang, J., D. J. Gardner, N. M. Stark, D. W. Bousfield, **M. Tajvidi**, and Z. Cai, 2017. Moisture and oxygen barrier properties of cellulose nanomaterial-based films. *ACS Sustainable Chemistry & Engineering*, 6(1), 49-70.
37. Fraver, S., **M. Tajvidi**, A.W. D'Amato, D. L. Lindner, J.A. Forrester and A.M. Milo, 2017. Woody material structural degradation through decomposition on the forest floor. *Canadian Journal of Forest Research*, 48(1), 111-115.
38. Naghizadeh Mahani, Z. and **M. Tajvidi**, 2017. Viscoelastic mapping of spruce-polyurethane bond line area using AM-FM atomic force microscopy. *International Journal of Adhesion and Adhesives*, 79, 59-66.
39. Diop, C. I. K., **M. Tajvidi**, M. A. Bilodeau, D. W. Bousfield & J. F. Hunt, 2017. Evaluation of the incorporation of lignocellulose nanofibrils as sustainable adhesive replacement in medium density fiberboards. *Industrial Crops and Products*: 109, 27-36.
40. Hunt, J. F., W. Leng, and **M. Tajvidi**, 2017. Vertical density profile and internal bond strength of wet-formed particleboard bonded with cellulose nanofibrils. *Wood and Fiber Science*, 49(4), 1-11.
41. Davids, W. G., N. Willey, R. Lopez-Anido, S. Shaler, D. Gardner, R. Edgar & **M. Tajvidi**, (2017). Structural performance of hybrid SPFs-LSL cross-laminated timber panels. *Construction and Building Materials*, 149, 156-163.
42. Leng, W., J. F. Hunt, & **M. Tajvidi**, 2017. Screw and Nail Withdrawal Strength and Water Soak Properties of Wet-formed Cellulose Nanofibrils Bonded Particleboard. *BioResources*, 12(4), 7692-7710.
43. Ghasemi, S., **M. Tajvidi**, D. W. Bousfield, D. J. Gardner & W. M. Gramlich, 2017. Dry-Spun Neat Cellulose Nanofibril Filaments: Influence of Drying Temperature and Nanofibril Structure on Filament Properties. *Polymers*, 9(9), 392.

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44. Diop, C. I. K., **M. Tajvidi**, M. A., Bilodeau, D. W. Bousfield, & J. F. Hunt, 2017. Isolation of lignocellulose nanofibrils (LCNF) and application as adhesive replacement in wood composites: example of fiberboard. *Cellulose*, 24(7), 3037-3050.
45. Amini, E., **M. Tajvidi**, D. J. Gardner & D. W. Bousfield (2017). Utilization of Cellulose Nanofibrils as a Binder for Particleboard Manufacture. *BioResources*, 12(2), 4093-4110.
46. Leng, W., J. F. Hunt, & **M. Tajvidi**, 2017. Effects of Density, Cellulose Nanofibrils Addition Ratio, Pressing Method, and Particle Size on the Bending Properties of Wet-formed Particleboard. *BioResources*, 12(3), 4986-5000.
47. Mousavi, S. M., E. Afra, **M. Tajvidi**, D. W. Bousfield, & M. Dehghani-Firouzabadi, 2017. Cellulose nanofiber/carboxymethyl cellulose blends as an efficient coating to improve the structure and barrier properties of paperboard. *Cellulose*, 24(7), 3001-3014.
48. Horseman, T., **M. Tajvidi**, Diop, C.I.K and D.J. Gardner, 2017. Production and property assessment of neat lignocellulose nanofibrils (LCNF) and their composite films. *Cellulose*, 24 (6), 2455-2468.

2016:

49. Yousefi Shivyari, N., **M. Tajvidi**, D. Gardner and D. Bousfield, 2016. Production and characterization of laminates of paper and cellulose nanofibrils. *ACS Applied Materials and Interfaces*, 8(38): 25520-25528.
50. Rowe, A., **M. Tajvidi** and D.J. Gardner, 2016. Thermal stability of cellulose nanomaterials and their composites with polyvinyl alcohol (PVA). *Journal of Thermal Analysis and Calorimetry*. 126 (3): 1371-1386.
51. Gardner, D. J. and **M. Tajvidi**, 2016. Hydrogen bonding in wood-based materials: an update. *Wood and Fiber Science*. 48 (4): 234-244.
52. **Tajvidi, M.**, D. J. Gardner and D. Bousfield, 2016. Cellulose Nanomaterials as Binders: Laminate and Particulate Systems. *Journal of Renewable Materials*. 4 (5): 365-376.
53. Rasouli, D., N. Tzankova Dintcheva, M. Faezipour, F.P. La Mantia, M.R. Matri Farahani and **M. Tajvidi**, 2016. Effect of nano zinc oxide as UV stabilizer on the weathering performance of wood-polyethylene composite. *Polymer Degradation and Stability* 133: 85-91.

2015:

54. **Tajvidi, M.** and L. C. Simon, 2015. High temperature creep behavior of wheat straw-isotactic/impact modified polypropylene composites. *Journal of Thermoplastic Composite Materials*, 28(10) 1406–1422.
55. Khonsari, A., H. R. Taghiyari, A., Karimi and **M. Tajvidi**, 2015. Study on the effects of wood flour geometry on physical and mechanical properties of wood-plastic composites. *Maderas-Cienc Tecnol* 17(3):545-558.
56. Dastoorian, F., M., Layeghi, G. Ebrahimi, **M. Tajvidi** and S.M. Zabihzadeh, 2015. Evaluation of the influence of elevated temperatures on the mechanical properties of a commercial unrefined bagasse fiber-polypropylene composite. *Iranian Journal of Wood and Paper Industries*, 5(2): 129-142.

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2014:

57. Dalvand, M.*, G. Ebrahimi, **M. Tajvidi** and M. Layeghi, 2015. Bending moment resistance of dowel corner joints in case-type furniture under diagonal compression load. *Journal of Forestry Research*, 25(4): 981-984.
58. Mashkour, M., T. Kimura F. Kimura, M. Mashkour, and **M. Tajvidi**, 2014. One-Dimensional Core-Shell Cellulose-Akaganeite Hybrid Nanocrystals: Synthesis, Characterization, and Magnetic Field Induced Self-Assembly. *RSC Advances*, 4: 52542-52549.
59. Mashkour, M., **M. Tajvidi**, F. Kimura, H. Yousefi, and T. Kimura, 2014. Strong highly anisotropic magneto-cellulose nanocomposite films made by chemical peeling and in-situ welding at interface using ionic liquid. *ACS Applied Materials & Interfaces*, 6(11):8165-8172.
60. Mashkour, M., T. Kimura, F. Kimura, M. Mashkour and **M. Tajvidi**, 2014. Tunable self-assembly of cellulose nanowhiskers and polyvinyl alcohol chains induced by surface tension torque (STT). *Biomacromolecules*, 15 (1): 60–65.
61. Derikvand, M., GH. Ebrahimi and **M. Tajvidi**, 2014. A feasibility study of using two-component polyurethane adhesive in constructing wooden structures. *Journal of Forestry Research*, 25(2): 477-482.
62. Elyasi, A., K. Dusthoseini, M. Tajvidi and A.H. Behraves, 2014. Effect of filler material and foaming agent on practical properties of wood plastic composites. *Iranian Journal of Wood and Paper Science Research*, 28(4): 597-612.

2013:

63. Motiee, N., Gh. Ebrahimi, **M. Tajvidi** and M. Layeghi, 2013. Minimizing hot-press time in the manufacturing process of wood plastic composites. *Iranian Journal of Wood and Paper Industries*, 4(2): 85-93.
64. Dalvand, M., Gh. Ebrahimi, **M. Tajvidi** and M. Layeghi, 2013. Establishing mathematical model for withdrawal resistance of wooden dowel in plywood. *Iranian Journal of Wood and Paper Industries*, 4(1): 37-47.
65. Fathollahzadeh, A., A.A. Enayati, Y. Z. Erdil and **M. Tajvidi**, 2013. Stiffness changes in MDF kitchen cabinet after accelerated aging test. *Iranian Journal of Wood and Paper Industries*, 4(1): 131-141.
66. Darabi, P., A. N. Karimi, M. Azadfallah and **M. Tajvidi**, 2013. Properties Evaluation of High Density Polyethylene Composite Filled with Bagasse after Accelerated Weathering, *Iranian Journal of Wood and Paper Industries*, 3(2):119-130.
67. **Tajvidi, M.**, A. Mohan Sharma, and L. C. Simon, 2013. Thermal transitions and temperature dependent mechanical behavior of wheat straw/talc isotactic/impact modified polypropylene composites. *Journal of Reinforced Plastics and Composites*. 32(19): 1430-1443.
68. Rasouli, D., M. Faezipour, M.R. Masteri Farahani and **M. Tajvidi**, 2013. The effect of zinc borate and additives on weathering performance of wood-high density polyethylene composites. *J. of Wood & Forest Science and Technology*, 20 (2): 41-58.

2012:

69. Rostampour Haftkhani, A., GH. Ebrahimi, M. Arabi, **M. Tajvidi** and M. Layeghi, 2012. Investigation on lateral load of joints made with various screws on commercial

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wood-plastic composite. *Iranian Journal of Wood and Paper Science Research*, 27(1): 100-113.

70. Mirzaei, B. and **M. Tajvidi**, 2012. Investigation on the stress relaxation behavior of milled newsprint filled polyethylene composite. *Iranian Journal of Wood and Paper Science Research*, 27(2): 226-234.
71. Matini Behzad, H., A. Ashori, A. Tarmian and **M. Tajvidi**, 2012. Impacts of wood preservative treatments on some physico-mechanical properties of wood flour/high density polyethylene composites. *Construction and Building Materials*, 35: 246–250.
72. Eslah, F., A. A. Enayati, **M. Tajvidi** and M. M. Faezipour, 2012. Regression Models for the Prediction of Poplar Particleboard Properties based on Urea Formaldehyde Resin Content and Board Density, *Journal of Agricultural Science and Technology (JAST)*, 14:1321-1329.
73. Shahverdi, M., A. Tarmian, H. Dashti, G. Ebrahimi, and **M. Tajvidi**, 2012. Mechanical Properties of Poplar Wood (*Populus alba*) Dried by Three Kiln Drying Schedules, *BioResources*, 7(1): 1092-1099.
74. Maleki, S., A. Rostampour Haftkhani, M. Dalvand, M. Faezipour and **M. Tajvidi**, 2012. Bending moment resistance of corner joints constructed with spline under diagonal tension and compression. *Journal of Forestry Research*, 23(3): 481-490.
75. Ghahri, S., S. Kazemi Najafi, B. Mohebbi and **M. Tajvidi**, 2012. Impact Strength Improvement of Wood Flour-Recycled Polypropylene Composites. *Journal of Applied Polymer Science*, 124(2): 1074-1080.

2011:

76. Rostampour Haftkhani, A., GH. Ebrahimi, **M. Tajvidi**, and M. Layeghi, 2011. Investigation on withdrawal strength of various screws used in furniture industry in commercial wood plastic composites (WPC) and comparison with those in commercial medium density fiberboard (MDF) and particleboard. *Iranian Journal of Natural Resources*, 64(4):369-382.
77. Eslah, F., A. A. Enayati, M. M. Faezipour and **M. Tajvidi**, 2011. Effect of increasing board density and amount of UF resin on particleboard properties, *Iranian Journal of Wood and Paper Industries*, 2(1):103-113.
78. Mashkour, M., **M. Tajvidi**, T. Kimura, F. Kimura, and G. Ebrahimi, 2011. Fabricating unidirectional magnetic papers using permanent magnets to align magnetic nanoparticle covered natural cellulose fibers. *BioRes.* 6(4): 4731-4738.
79. Rostampour Haftkhani, A., GH. Ebrahimi, **M. Tajvidi**, M. Layeghi and M. Arabi, 2011. Lateral resistance of joints made with various screws in commercial wood-plastic composites. *Materials and Design*, 32: 4062-4068.
80. Rostampour Haftkhani, A., GH. Ebrahimi, **M. Tajvidi** and M. Layeghi, 2011. Investigation on withdrawal resistance of various screws in face and edge of wood-plastic composite panel. *Materials and Design*, 32: 4100-4106.
81. **Tajvidi, M** and A. Takemura, 2011. Effects of reprocessing on the hygroscopic behavior of natural fiber high-density polyethylene composites. *Journal of Applied Polymer Science*, 122(2): 1258-1267.

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82. Mirzaei, B., **M. Tajvidi**, R.H. Falk and C. Felton, 2011. Stress relaxation behavior of lignocellulosic-high density polyethylene composites. *Journal of Reinforced Plastics and Composites*, 30(10): 875-881.

2010:

83. Khosravani, A., A. Jahan Latibari, **M. Tajvidi**, S. A. Mirshokraee and M. Mohammad Nazhad, 2010. Studying the Influence of Cationic Starch Dosage on Performance of Anionic Nanosilica-Cationic Starch System in Fine Paper. *Iranian Journal of Natural Resources*, 63(1): 1-8.
84. **Tajvidi, M.** and A. Takemura, 2010. Recycled natural fiber polypropylene composites: water absorption/desorption kinetics and dimensional stability. *Journal of Polymers and the Environment*, 18(4): 500-509.
85. **Tajvidi, M.**, M. Bahrami and M. H. Ekhtera, 2010. Physical and Mechanical Properties of a Highly Filled Old Corrugated Container (OCC) Fiber/Polyethylene Composite. *Journal of Reinforced Plastics and Composites*, 29(8): 1166-1172.
86. Chaharmahali, M., J. Mirbagheri, **M. Tajvidi**, S. Kazemi Najafi and Y. Mirbagheri, 2010. Mechanical and Physical Properties Wood-Plastic Composite Panels. *Journal of Reinforced Plastics and Composites*, 29(2): 310-319.
87. **Tajvidi, M.** and A. Takemura, 2010. Thermal degradation of natural fiber reinforced polypropylene composites. *Journal of Thermoplastic Composite Materials*, 23(3): 281-298.
88. Nadali, E., A. Karimi, **M. Tajvidi**, and R. Naghdi, 2010. Natural durability of a bagasse fiber/polypropylene composite exposed to rainbow fungus (*Coriolus versicolor*). *Journal of Reinforced Plastics and Composites*, 29(7): 1028-1037.
89. **Tajvidi, M.**, N. Motie, Gh. Rassam, R. H. Falk and C. Felton, 2010. Mechanical performance of hemp fiber polypropylene composites at different operating temperatures. *Journal of Reinforced Plastics and Composites*, 29(5): 664-674.
90. Dastoorian, F., **M. Tajvidi** and GH. Ebrahimi, 2010. Evaluation of time dependent behavior of a wood flour-high density polyethylene composite. *Journal of Reinforced Plastics and Composites*, 29(1): 132-143.

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91. Azad, F. M. Faezipour and **M. Tajvidi**, 2009. Effect of compatibilizer, MAPP, on physical and mechanical properties of reed stem flour-polypropylene composites. *Iranian Journal of Wood and Paper Science Research*, 24(2): 232-243.
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127. **Tajvidi, M.**, R. H. Falk & J. C. Hermanson, 2005. Time-Temperature Superposition Principle Applied to a Kenaf-Fiber High-density Polyethylene Composite. *Journal of Applied Polymer Science*, 97: 1995-2004.

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CONFERENCE PRESENTATIONS:

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1. **Tajvidi, M.**, 2020. Making ends meet: the future of forest products. NSF Convergence Accelerator Workshop on Re-Think Nature for Innovative Solutions to Grand Challenges. October 2 2020.
2. Sun, W. and **Tajvidi, M.**, 2019, Mycelium-Assisted Bonding: Influence of the Aerial Hyphae on the Bonding Properties of White-Rot Modified Wood. SWST 62nd International Convention, Yosemite National Park, CA. October 20-25 2019.
3. **Tajvidi, M.**, Noonan, C., Tayeb, A.H., Shahinpoor, M and Tabatabaie, S.E., 2019. Ionic Polymer Metal Composites for Sensing and Actuation Produced with cellulose nanomaterials. TAPPI International Conference on Nanotechnology for Renewable Nanomaterials, Chiba, Japan, June 3-7, 2019.
4. Hafez, I. and **Tajvidi, M.**, 2019, Eco- and health-friendly gypsum board substitute based on cellulose nanofibrils (CNF) as a binder. TechConnect World 2019, Boston, MA. June 17-19 2019.
5. Gardner, D.J., **M. Tajvidi** and Y. Han 2018. Cellulose Nanocomposites: Status of Development from a Commercial Perspective. SPE/ACCE, Novi, MI, September 4-7 2018.
6. **Tajvidi, M.** 2018. Facts and myths about cellulose nanofibrils (CNF): what to expect and what to not, TechConnect 2018, Anaheim, CA, USA, May 13-16, 2018.
7. Tayeb, A.H., **M. Tajvidi**, 2018. Moisture/Oxygen barrier properties of nanocellulose-montmorillonite hybrid films enhanced with cross-linking additives, Forest Products Society 72nd International Convention, Madison, WI, USA, June 11-14, 2018.
8. Sun, W. and **M. Tajvidi**, 2018. Enhancement of the physical and mechanical properties of mycelium-bonded composite panels by cellulose nanofibrils. TAPPI International Conference on Nanotechnology for Renewable Nanomaterials, Madison, WI, USA, June 11-14, 2018
9. Amini, E. **M. Tajvidi**, D.W. Bousfield and D. Gardner, 2018. Cellulose nanofibrils-bonded particleboards: production, property evaluation and dewatering process. TAPPI International Conference on Nanotechnology for Renewable Nanomaterials, Madison, WI, USA, June 11-14, 2018.
10. **Tajvidi, M.** and M. Zheng, 2018. Structure-property relationships in physical, mechanical and barrier properties of hybrid cellulose nanofibril/bentonite films for packaging applications. TAPPI International Conference on Nanotechnology for Renewable Nanomaterials, Madison, WI, USA, June 11-14, 2018.
11. Ghasemi, S., **M. Tajvidi**, D.W. Bousfield, D. Gardner and W. Gramlich, 2018. Dry-spun neat cellulose nanofibril filaments: effect of process variables and additive on filament properties. TAPPI International Conference on Nanotechnology for Renewable Nanomaterials, Madison, WI, USA, June 11-14, 2018.
12. Bousfield, D.W., S. M. Mousavi, **M. Tajvidi** and E. Afra, 2018. Comparison of coating methods for the application of cellulose nanofibrils (CNF) as coating on Paperboard. TAPPI International Conference on Nanotechnology for Renewable Nanomaterials, Madison, WI, USA, June 11-14, 2018.

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13. Amini, E. and **M. Tajvidi**, 2017. Effect of adding cellulose nanocrystals (CNC) on the mechanical and thermal behavior of Acrodur® biocomposites. SPE/ACCE, Novi, MI, September 5-8 2017.
14. **Tajvidi, M.** and D.J. Gardner, 2017. Where nano and sustainable meet: opportunities and challenges for automotive applications using cellulose nanomaterials. SPE/ACCE, Novi, MI, September 5-8 2017.
15. Mousavi, S. M., E. Afra, **M. Tajvidi**, D. W. Bousfield and M. Dehghani-Firouzabadi, 2017. Strength and barrier enhancement of paperboards properties with cellulose nanofibrils applied by blade coater. International Conference on Nanotechnology for Renewable Nanomaterials, Montreal, Canada, June 5-8, 2017.
16. **Tajvidi, M.** and C.I.K. Diop, 2017. Lignocellulose nanofibrils (LCNF) a viable low cost alternative to cellulose nanofibrils in binder applications: effect on physico-mechanical properties of resin-free medium density fiberboards (MDF). International Conference on Nanotechnology for Renewable Nanomaterials, Montreal, Canada, June 5-8, 2017.
17. Hashemi Najafi, S. M., **M. Tajvidi** and D.W. Bousfield, 2017. Mechanical properties of free standing pigmented coating layers with latex and starch as binder: bending, tensile and picking properties. Papercon 2017, Minneapolis, MN, April 23-26 2017
18. **Tajvidi, M.** and T. Horseman, 2017. Improvement of the physical and mechanical properties of lignocellulose nanofibrils (LCNF) films through hybridization. International Conference on Nanotechnology for Renewable Nanomaterials, Montreal, Canada, June 5-8, 2017.
19. **Tajvidi, M.**, W. Leng, J.F. Hunt, C. Diop, D. Bousfield, D. Gardner, E. Amini, M. Bilodeau and W. Gramlich, 2017. Binder applications of cellulose nanofibrils: new developments. TechConnect World Innovation Conference and Exhibition, Washington D.C., May 14-17 2017.
20. **Tajvidi, M.**, 2016. Cellulose nanomaterials: production, properties, applications and future prospects. Nanoworld Conference, Boston, MA, April 4-6 2016.
21. **Tajvidi, M.** and Z. Naghizadeh Mahani, 2016. AM-FM Viscoelastic Mapping: applications for nanocomposite mechanical characterization. SPE Polymer Nanocomposites Conference, Bethlehem, PA, October 16-18 2016.
22. Mazhari Mousavi, S.M., D. Bousfield, **M. Tajvidi**, and E. Afra, 2016. Cellulose nanofibers as a coating material to improve the structure and barrier properties of paperboard. TAPPI Advanced Coating Symposium, Stockholm, Sweden, October 4-6 2016.
23. Hashemi Najafi, S.M., **M. Tajvidi** and D. Bousfield, 2016. Mechanical properties of free standing coating layers: bending and tensile properties. TAPPI Advanced Coating Symposium, Stockholm, Sweden, October 4-6 2016.
24. Tankut, N., M. Zor, **M. Tajvidi**, D. J. Gardner, and H. Yazici, 2016. Water absorption and thickness swelling behavior of thermally treated lignocellulosic reinforced styrene maleic anhydride (SMA) composites. 27th International Conference on Wood Science and Technology, University of Zagreb, Croatia, October 13-14 2016.
25. Yousefi Shivyari, N., **M. Tajvidi**, D.W. Bousfield, and D.J. Gardner, 2016. Evaluating physical and mechanical properties of cellulose Nanofibril (CNF)

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- bonded paper laminates. SPE Polymer Nanocomposites Conference, Bethlehem, PA, October 16-18 2016.
26. **Tajvidi, M.**, D. Bousfield and D. Gardner, 2016. Cellulose nanofibrils as binders: applications and adhesion mechanisms. International Conference on Nanotechnology for Renewable Nanomaterials, Grenoble, France, June 13-16 2016.
 27. Rowe, A., **M. Tajvidi**, and D. Gardner, 2016. Thermal degradation kinetics of cellulose nanomaterials and their composites with polyvinyl alcohol (PVA). International Conference on Nanotechnology for Renewable Nanomaterials, Grenoble, France, June 13-16 2016.
 28. Amini, E., **M. Tajvidi**, D.J. Gardner and D.W. Bousfield, 2016. Introduction of cellulose nanofibrils as an adhesive binder for particleboard manufacture. SPE Polymer Nanocomposites Conference, Bethlehem, PA, October 16-18 2016.
 29. Ghasemi, SH., **M. Tajvidi**, D.W. Bousfield, and D.J. Gardner. 2016. Influence of different cellulose nanofibril suspensions on properties of yarns and tapes produced from hemp natural fibers. SPE Polymer Nanocomposites Conference, Bethlehem, PA, October 16-18 2016.
 30. Yousefi Shivyari, N. and **M. Tajvidi**, 2015. All-Renewable Paper Nano-Laminates for Automotive Applications. SPE/ACCE, Novi, MI, September 9-11 2015.
 31. Ghasemi, Sh. and **M. Tajvidi**, 2015. Cellulose Nanoparticle Reinforced Polyurethane Foams. SPE/ACCE, Novi, MI, September 9-11 2015.
 32. **Tajvidi, M.** 2015. Transparent Composite Films of All-Cellulose and Cellulose-Polyvinyl Alcohol Nanocomposites: Effect of Relative Humidity and Temperature on Mechanical Performance. SPE/ACCE, Novi, MI, September 9-11 2015.
 33. **Tajvidi, M.** 2015. Cellulose Nanofibril Bound Laminated Paper Nanocomposites (Cellubound). International Conference on Nanotechnology for Renewable Nanomaterials, Atlanta, GA, June 22-25 2015.
 34. Crouse, J. and **M. Tajvidi**, 2015. Temperature and humidity dependent mechanical performance of nanocellulose and its composites. SWST Annual Convention, Grand Tetons National Park, WY, June 7-12 2015.
 35. **Tajvidi, M.** and M. Mashkour, 2014. Orienting the hard-to-orient: towards manufacturing unidirectional cellulose nanocomposites. SPE Polymer Nanocomposites Conference, October 13-15, Bethlehem, PA.
 36. Mashkour, M. **M. Tajvidi**, T. Kimura and F. Kimura, 2012. From Magnetic Natural Cellulose Fibers to a Magneto-Cellulose Hybrid Nanocomposite using Green Process. The Seventh International Workshop on Green Composites, IWGC-7, August 28-30 2012, Hamamatsu, Shizuoka, Japan.
 37. **Tajvidi, M.**, A. Mohan Sharma, and L. C. Simon, 2012. Viscoelastic Properties of wheat straw fiber/talc/polypropylene composites for automotive applications. 12th Annual Automotive Composites Conference and Exhibition, Troy, MI, USA, September 11-13 2012.
 38. **Tajvidi, M.**, A. Mohan Sharma, and L. C. Simon, 2012. Temperature dependent mechanical behavior and thermal transitions of thermoplastic composites containing talc, wheat straw fiber and polypropylene for automotive applications.

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- 12th International Conference on Biocomposites, Niagara Falls, ON, Canada, May 6-8 2012.
39. **Tajvidi, M.** and A. Takemura, 2010. Preparation and properties of composites of rice hulls and micro-spherical blends of polyethylene terephthalate (PET) and high density polyethylene (HDPE). The 18th Annual BEPS Meeting, Polymers & the Environment: Emerging Green Technologies & Science, Toronto, ON, Canada, October 13-15 2010.
 40. **Tajvidi, M.** and A. Takemura, 2010. Static and dynamic mechanical properties of recycled natural fiber polypropylene composites. The 10th Pacific-rim Bio-based Composites Symposium (BIOCOMP 2010), Banff, AB, Canada, October 5-8 2010.
 41. **Tajvidi, M.** A review on the recycling of wood plastic composites, The First National Conference on Novel Technologies in Wood and Paper Industries, 18-19 May 2010, Chaloo, Iran.
 42. Karimi, A., A. Khonsari, **M. Tajvidi** and J. Harun, 2009. Investigation of Natural Durability of Spruce Wood-Polyethylene Composite against White Rot Fungus (*Coriolus versicolor*). 15th International Symposium on Wood, Fiber and Pulping Chemistry, Oslo, Norway, June 15 – 18 2009.
 43. **Tajvidi, M.** and A. Takemura, 2009. Recyclability Index: A measure to determine how recyclable natural fiber plastic composites are. The 10th International Conference on Wood & Biofiber Plastic Composites, May 11-13, Madison, WI, USA.
 44. Khosravani, A., A. J. Latibari, **M. Tajvidi**, S. A. Mirshokraei, M. Rahmaninia, and Mousa M. Nazhad, 2008. The Performance of NanoParticles in Relation with Zeta Potential of the Wet-End System. The 5th International Congress of Nano-Bio Clean Tech 2008, October 27-30, 2008, San Francisco, USA.
 45. **Tajvidi, M.** 2008. Recycling natural fiber thermoplastic composites. 29th Symposium on Wood Adhesion, November 5-6, Nara, Japan.
 46. **Tajvidi, M.** and A. Takemura, 2008. Effect of formulation and testing variables on thermo-gravimetric properties of natural fiber high density polyethylene composites. The International Symposium on Wood Science and Technology 2008 (IAWPS2008), September 27-30, Harbin, China.
 47. Haghdan, SH and **M. Tajvidi**, 2008. Performance of Layered Wood Flour/ PVC Composites in Extreme Freeze-Thaw Conditions, The International Symposium on Wood Science and Technology 2008 (IAWPS2008), September 27-30, Harbin, China.
 48. Karimi, A., **M. Tajvidi** and Pourabbasi, S., 2007. Effect of fiber type and content on the natural durability of natural fiber/high density polyethylene composites against the rainbow fungus (*Coriolus versicolor*). IUFRO ALL-Division-5 Conference "Forest Products and Environment – A Productive Symbiosis", October 29 – November 2, 2007, Taipei, Taiwan.
 49. Pourabbasi, S., A. Karimi, D. Parsapajouh, **M. Tajvidi** and M. Soleymani, 2007. The natural durability of wood floor/high density polyethylene composites against the rainbow fungus (*Coriolus versicolor*). IUFRO ALL-Division-5 Conference "Forest Products and Environment – A Productive Symbiosis", October 29 – November 2, 2007, Taipei, Taiwan

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50. **Tajvidi, M.** Sh. Haghdan and J.C. Hermanson, 2007. Physical and mechanical properties of novel layered composites of wood flour and PVC. The 9th International Conference on Wood & Biofiber Plastic Composites, Madison, WI, USA, 21-23 May 2007.
51. **Tajvidi, M.** and GH. Ebrahimi, 2006. Effect of temperature on the creep behavior of natural fiber-polypropylene composites, Wood-Plastic Conference, Amirkabir University of Technology, 13 June 2006, Tehran, Iran.
52. Karimi A., S. Nazari, I. Ghasemi, GH. Ebrahimi and **M. Tajvidi**, 2005. The Effect of Delignification on the Mechanical Properties of Hornbeam fiber – polypropylene composites. The 4th International Conference of Polymer Science and Technology, Tehran, Iran, September 2005.
53. Pourabbasi, S., A. Karimi, D. Parsapajouh and **M. Tajvidi**, 2005. Investigation of durability of four types of natural fiber-polyethylene composites against the fungus *Coriolus versicolor*, The 4th International Conference of Polymer Science and Technology, Tehran, Iran, 27-29 September 2005.
54. **Tajvidi, M.**, 2005. Current trends in WPC research, First Workshop on Natural fiber plastic composites, Faculty of Natural Resources, University of Tehran, Karaj, Iran.
55. **Tajvidi, M.**, 2005. Natural fiber plastic composites; Introduction and Background, First Workshop on Natural fiber plastic composites, Faculty of Natural resources, University of Tehran, Karaj, Iran.
56. **Tajvidi, M.**, R. H. Falk & J. C. Hermanson, 2004. A Study on the applicability of Time-Temperature Superposition Principle to a Kenaf-Fiber High-density Polyethylene Composite. Third International Conference of the European Society for Wood Mechanics. Vila Real, Portugal, September 5-8 2004.
57. Ebrahimi, GH., R. H. Falk & **M. Tajvidi**, 2003. Short-term Creep Behavior of Natural Fiber/Polypropylene Composites, 2nd International Conference on Wood Mechanics, STFI, Stockholm, Sweden.
58. **Tajvidi, M.**, R. H. Falk & GH. Ebrahimi, 2003. Study of the Effect of Compatibilizer on the Mechanical Properties of Wood Flour - Polypropylene Composites using Dynamic Mechanical Analysis (DMA), 2nd International Conference on Wood Mechanics, STFI, Stockholm, Sweden.
59. **Tajvidi, M.**, R. H. Falk, J. C. Hermanson & C. Felton, 2003. Influence of Natural Fibers on the Phase Transitions in High-Density Polyethylene Composites Using Dynamic Mechanical Analysis, 7th International Conference on Wood Fiber Plastic Composites, Madison, WI, USA, 2003.

PATENTS:

- **Tajvidi, M** and D. Bousfield, 2015. Composite products of paper and nanofibrillated cellulose and process of making. U.S. Provisional Patent No. 62216660. Filed September 10 2015.

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- Shaler, S., W. Davids, D. Gardner, R. Lopez-Anido, R. Rice, **M. Tajvidi**, R. Edgar and N. Willey, 2016. Use of Structural Composite Lumber in Cross-Laminated Timber to Increase Structural Capacity, Invention disclosure filed February 2 2016.
- Lignocellulosic Foam Compositions and Methods of Making Thereof. Application Filed December 2019.

BOOKS:

- Darvishsefat A. A., 2007. Atlas of the Protected Areas of Iran, University of Tehran Press, Translation to English by: **M. Tajvidi**.

BOOK CHAPTERS:

- Taghiyari, H. R., J. Norton and **M. Tajvidi**, 2017. Effects of Nano-Materials on Different Properties of Wood-Composite Materials, In: Zhongqi, He (ed.), Bio-based Wood Adhesives: Preparation, Characterization, and Testing, CRC Press/Taylor & Francis Group.
- Taghiyari, H. R., **Tajvidi, M.**, Taghiyari, R., Mantanis, G. I., Esmailpour, A., & Hosseinpourpia, R., 2020. Nanotechnology for wood quality improvement and protection. In *Nanomaterials for Agriculture and Forestry Applications* (pp. 469-489). Elsevier.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:

- Society of Wood Science and Technology (SWST)
- Technological Association of the Pulp and Paper Industry (TAPPI)
- Society of Plastic Engineers (SPE)

PROPOSAL REVIEW FOR FUNDING AGENCIES:

- USDA NIFA National Need Fellowship Program, September 29-October 1, 2020.
- Ontario Agri-Food Innovation Alliance, February 27, 2019 - March 13, 2019.
- National Science Foundation (NSF) Materials Engineering and Processing Review Panel: Reviewed 12 full proposals and scribed 4 reviews in the panel meeting held on April 12-13, 2018.
- National Science Foundation (NSF) Materials Engineering and Processing Review Panel: Reviewed 11 full proposals and scribed 3 reviews in the panel meeting held on January 17, 2014.

REVIEWING FOR SCIENTIFIC JOURNALS:

- *Science*
- *Composites Part A (Elsevier)*
- *Composites Part B (Elsevier)*
- *Composites Science and Technology (Elsevier)*
- *Journal of Applied Polymer Science (Wiley)*
- *Polymer Composites (Wiley)*

Curriculum Vitae

- Journal of Material Letters (Elsevier)
- Journal of Polymers and the Environment (Springer)
- Journal of Wood Chemistry and Technology (Taylor and Francis)
- Journal of Thermoplastic Composite Materials (Sage)
- Journal of Composite Materials (Sage)
- Bioresources
- Wood and Fiber Science
- Biomacromolecules
- ACS Industrial & Engineering Chemistry Research
- ACS Applied Materials and Interfaces
- Cellulose
- Journal of Thermal Analysis and Calorimetry
- Journal of Materials Science
- International Journal of Engineering
- Iranian Polymer Journal
- Iranian Journal of Natural Resources
- Iranian Journal of Wood and Paper Science Research
- Research and Construction in Natural Resources
- Journal of Agriculture and Natural Resources Sciences of the University of Gorgan
- Journal of the Iranian Society of Wood and Paper Industries

STUDENTS/POSTDOCS ADVISED/CO-ADVISED SINCE 2013:

Graduate Students:

- Peter Kelly Ph.D., Chemistry, committee member
- Suriya Prakaash LakshmiBalas Ph.D., Food Science, committee member
- Nasim Alikhani Ph.D., Bioproducts Engineering, committee member
- Mohammed Al-Garrawi Ph.D., Chemical and Bio. Eng., committee member
- Mitchell Chesley Ph.D., Chemical and Bio. Eng., committee member
- Elliot Sanders Ph.D., Bioproducts Engineering, committee member
- Mary Ignatiadis M.Sc., School of Forest Resources, committee member
- Avinash Patel Ph.D., Food Science, committee member
- Aileen Co Ph.D., Chemical and Bio. Eng., committee member
- Md Musfiqur Rahman Ph.D., Bioproducts Engineering, **committee co-chair**
- Alex Collins M.Sc., Bioproducts Engineering, **committee chair**
- Md Ikramul Hasan M.Sc., Bioproducts Engineering, **committee co-chair**
- Rakibul Hossain M.Sc., Bioproducts Engineering, **committee chair**
- Mohammad Hashemi Najafi Ph.D., Bioproducts Engineering, **committee co-chair**
- Shokoofeh Ghasemi Ph.D., Bioproducts Engineering, **committee chair**
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- Hossein Haddad Ph.D., Civil & Environmental Eng., committee member
- Kendra Fein Ph.D., Chemical and Bio. Eng., committee member
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Curriculum Vitae

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- Dr. Islam Hafez Ph.D. University of Minnesota, U.S.A., 2018-current
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